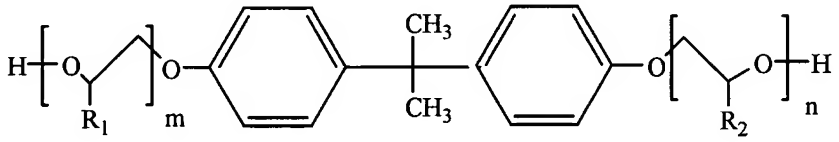
CLAIMS

What is claimed is:

1. A toner comprising:

a binder resin comprising a main binder resin and 10 to 100 parts by weight of crystalline polyester, based on 100 parts by weight of the main binder resin,

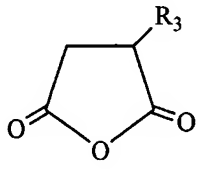
the crystalline polyester comprising diol represented by Formula 1 below:



(1)

wherein, $R_1$ and $R_2$ are hydrogen or methyl, and n and m are 1 or 2;

2 to 25 moles of carboxylic anhydride represented by Formula 2 below, based on 100 moles of the diol of Formula 1:



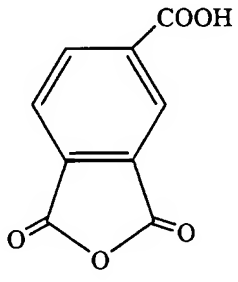
(2)

wherein, $R_3$ is an alkyl group of $C_{1-12}$;

20 to 50 moles of terephthalic acid, based on 100 moles of the diol of Formula 1;

and

2 to 15 moles of trimellitic anhydride represented by Formula 3 below, based on 100 moles of the diol of Formula 1:



(3);

a charge control agent; and

a pigment.

2. The toner of claim 1, wherein the crystalline polyester maintains a polymer chain orientation in a molten state.

3. The toner of claim 1, wherein the crystalline polyester has a weight average molecular weight of 10,000 to 100,000.

4. The toner of claim 1, wherein the crystalline polyester has a melting temperature of approximately 100 to 120°C and a glass transition temperature of the crystalline polyester is unobservable in a differential scanning calorimetry (DSC) analysis.

5. The toner of claim 1, wherein the main binder resin comprises styrenes, acrylics, ethers, esters, epoxies, blends or copolymers thereof.

6. The toner of claim 1, wherein the main binder resin has a glass transition temperature of approximately 40 to 70°C and a weight average molecular weight of 10,000 to 1,000,000.

7. The toner of claim 1, wherein the main binder resin and the crystalline polyester are blended or form a copolymer.